# TA-AV521/AV621

# SERVICE MANUAL

US Model



PHOTO: TA-AV521

## **SPECIFICATIONS**

**AUDIO POWER SPECIFICATIONS** POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8-ohm loads, both channels driven, from 40 - 20,000 Hz; rated 135 watts per channel minimum RMS power, with less than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Power bandwidth (IHF) Dynamic headroom

Frequency response

30 Hz - 30 kHz (8 ohms) 1.7 dB ('78 IHF)

Harmonic distortion

Less than 0.9% at rated output (Surround OFF)

PHONO: RIAA equalization curve CD, VIDEO, TUNER, TAPE:

Rear output Center output Damping factor

10 Hz - 50 kHz ±3dB 15 W + 15 W (at front off 8 ohms)

30 W (at front off 4 ohms) 27 (8 ohms, 1 kHz)

Input

Input jack	Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	Phono	3.0 mV	50 kilohms	71 dB 75 dB* (A, 3.0 mV)
CD,VIDEO, TUNER, TAPE	Phono	250 mV	50 kilohms	92 dB 83 dB* (A, 250 mV)

Output

TAPE (REC OUT)	Phono jacks	Voltage 150 mV Impedance 1 kilohm
SPEAKERS (Front, Rear)	_	Accepts speakers of 8 - 16 ohms
SPEAKERS (Center)	_	Accepts speakers of 4 – 16 ohms
HEADPHONES	Stereo phone jack	Accepts low and high impedance headphones.

Tone controls

BASS: ±10 dB (100 Hz) TREBLE: ±8 dB (10 kHz)

General

Power requirements Power consumption AC outlets Dimensions

120 V AC, 60 Hz 250 W 3 switched, 120 W/1 A max.

Approx. 430 x 145 x 360 mm (w/h/d)

Weight Accessories supplied  $(17 \times 5^{3})_{4} \times 14^{1})_{4}$  inches) Approx. 9.9 kg (21 lb 14 oz) Remote Commander

RM-U521 (1) (TA-AV521) RM-P322 (1) (TA-AV621) Sony batteries SUM-3(NS) (2)

Design and specifications are subject to change without notice.

\*'78 IHF



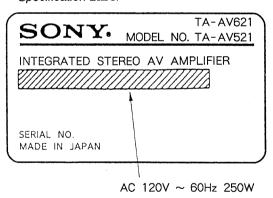


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# MODEL IDENTICATION

- Specification Label -



# SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

# SAFETY CHECK-OUT

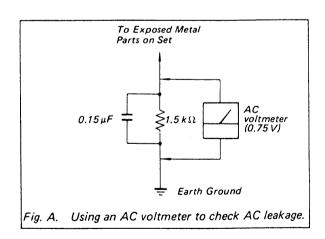
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

# LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



2

# SECTION 1 **GENERAL**

This section is extracted from TA-AV521 instruction manual.

Do not connect any electrical home appliances such as an electric iron, fan, TV or other high wattage equipment to these AC outlets.

Use these to power audio component whose power consumption is less than the watage indicated on the AC outlets. These outlets are controlled by the SYSTEM POWER switch on the front panel.

AC OUTLETS (SWITCHED)

• TA-AV521 MODEL

Hooking Up the System

At first, this section describes about the connections with the other audio/video equipments and speakers. After that, it also shows about the remote control system and AC outlet.

• Connect the AC power cord last. Make sure power is off.

• Jacks and plugs of the connection cord are color-coded as follows:
Red jacks and plugs: For the right rehanel of audio signals
White jacks and plugs: For the left channel of audio signals

• The cable connectors should be fully inserted into the jacks. Loose connections may cause

hum and noise.

S Tuner/TV block SHIFT and TUNER PRESET/ TV CH (channe), +/-buttons: Select a preset station of the tuner or a channel

Program number (1 to 0) and ENTER buttons: Select the

channel. (for TV)
SURROUND mode selectors (for the amplifier)
ON/OFF: Turns on/off the surround mode. MODE: Selects the surround mode.

RM-U521

TV/VIDEO button: Selects the input signal of the TV.

(for TV)

of the TV.

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T.(Test) TONE: Generates a pink noise signal that is sent

in succession to each speaker.
DELAY: Adjust the delay time.
FUNCTION selectors: Select an input source of the amplifier, (for the amplifier)

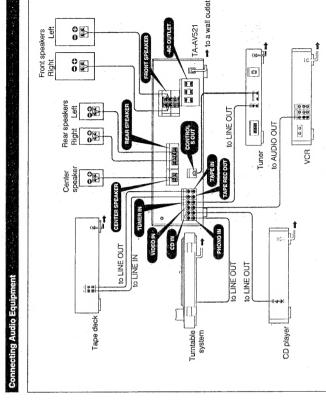
(REC): Recording
 InvVIR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal ov VCR programs.
 VTR CH (channel) +/- buttons: Select channel on the VCR.

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The remote commander supplied with this unit can control the unit from a distance. The remote commander is divided into 6 sections according to the functions as shown below.

Remote Commander



# CONTROL S cord (not supplied) Connect the CONIROL S IN Jack of other Sony equipment with the CONTROL S cord for whole audio system remote control.

CAUTION

To disconnect

Push in until it clicks.

4

# 1 Power control block

SYSTEM OFF button: Turns off the power of the whole system: LDP, VTR, TV, and AUDIO. LDP/VTR1/VTR2/VTR3/TV/AUDIO POWER buttons: Control the power of each unit.

Selects the function mode on the remote commander MODE selector [2]

CENTER VOL/TV VOL +/- buttons: Control the volume of

REAR VOL +/- buttons: Control the volume of rear

speakers (surround level).

center speaker (surround level) or TV.

DBFB button: Turns on/off the DBFB (Dynamic Bass Feed Back). (for the amplifier)

MASTER VOL. +/- buttons: Control the amplifier volume (for the amplifier).

1:To select the functions indicated in light gray such as DECK, DAT, CD player and the SURROUND mode of

# To select the functions indicated in blue such as VTR, LDP (Laser disc player) and TV. CDP/LDP control block

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The combined CD/LD player can be controlled with LDP II: Pause position. ▼: Play

2 Insert two size AA (R6)

1 Open the cover.

batteries with correct

inserting the batteries into the remote commander

D (disc) SKIP: Disc skip (for a CD player equipped with

a multi-disc changer)

←(/▶▶: Manual search (only for LD player)

★★/▼▼: Locates a desired selection.

# 4 Tape deck/VCR control block

DECK/VTR selector
DECK Al<sub>2</sub>, and DAT. Selects Deck A, B or DAT deck,
VTR 1, 2, and 3: Set to the VTR 1, 2 or 3 according to
your VCR setting.
1: Betamax VCRs
2: 8 mm VCRs

3: VHS VCRs II. Pause

■: Stop ◆◆/▶▶: Fast winding √/▼: Play

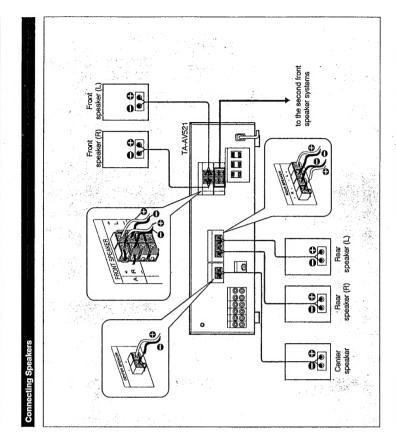
Battery life

when using the Sony SUM-3 (NS) batteries.
When the batteries are exhausted, the commander can no longer operate the unit. Replace both batteries with new About half a year of normal operation can be expected

# To avoid battery leakage

When the commander is not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and corrosion

# • TA-AV521 MODEL



Front speakers
Connect the front Speaker systems to the FRONT SPEAKER
A original B terminals.
They can be selected individually or simultaneously with the SPEAKERS selector.

Rear speakers
Connect the rear speaker systems to the REAR SPEAKER terminal for enjoying surround sound.

Center speaker
You can connect a center speaker to the CENTER SPEAKER
Itemmial for enjoying surround sound. The sound such as a
dialog comes from the center.

Note on speaker impedance and power capacity
This amplifier is designed to work best with speakers of
nominal impedance from 8 to 16 ohms (Center speaker:
from 4 to 16 ohms). Be sure to use a speaker system with
adequate power handling capability.

Note

When connecting the speaker cord to the speaker ferminal,
make sure that the polarity (+ and -) of the speaker cord is
correct. If the polarity is reversed at either speaker, the
sound will be distorted and will lack bass.

9

This section is extracted from TA-AV621 instruction manual.

2

# The remote commander supplied with this unit can control the unit from a distance. The remote commander is divided into 9 sections according to the functions as shown below.







# 1 Program control section

Mode selector and indicator: SONY STD: To control Sony equipment. USER STD: To control equipment whose remote

control functions are stored. LEARN: To store functions of other remote commanders

# 2 Power control section

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SYSTEM OFF button: Turns off the power of the whole system: LDP, VCR, TV, and AUDIO. LDP/YTR1/VTR2/YTR3/TV/AUDIO POWER buttons: Control the power of each unit

# 3 MODE selector

Selects the function mode on the remote commander.

1: To select the functions indicated in light gray such as DECK, CD player and surround mode of amplifier.

2: To select the functions indicated in blue such as VCR, LDP and TV.

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# 4 CD/LD player control section

The combined CD/LD player can be controlled with LDP D.(disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)

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★★/▶♥: Manual search Stop

RM-P322

SHIFT button: Selects a memory page. TUNER PRESET +/- buttons: Select a preset station. 5 Tuner control section

ANT (antenna) TVA/TR buttons: Selects the output signal from the attenda terminal on the VCR, either a TV signal or VCR programs.
VTR CH (channel) +/- buttons: Select channel on the 6 Tape deck/VCR control section

# ←/►►: Fast winding or forwarding VCR.

Stop

C.(cassette) SKIP. Cassette skip (for a cassette deck equipped with a multi-cassette changer) REC MODE REV/FWD buttons:

For reverse recording, press REV and • together. For forward recording, press FWD and • together.

C CD SYNCHRO (CD synchronized recording) section (The playback of the Sony CD player equipped with a remote commander and the recording of the cassette

deck can be performed simultaneously.)

YNCHRO: Press to start recording of the cassette deck equipped with the multi-changer and then playback of the Oplayer. STAND BY: Press to set the cassette deck to the record-

START: Press to start recording of the cassette deck and then playback of the CD player.
STOP: Press to stop the recording of the cassette deck and playback of the CD player.

# B Amplifier/TV section

IV/VIDEO button: Selects the input signal of the TV. (for TV)

T.(test) TONE: Outputs test tone to each speakers in Program number (1 to 0) and ENTER buttons: Select the channel. (for IV) SURBOUND mode selectors (for the AV amplifier) ON/OFF: Turns on/off the surround mode. MODE: Selects the surround mode.

(The VIDEO 2, 3 and 4 do not function. When the VIDEO 1 button is pressed, the AV amplifier enters the DELAY: Adjusts the delay time. FUNCTION selectors: Select an input source of the AV amplifier. (for the AV amplifier)

CENTER VOL. MV VOL. +/- buttons: Control the volume of center speaker or TV, (The CENTER VOL. +/- buttons function for the AV amplifier.)

PEAR VOL. TV CH. +/- buttons: Control the volume of rear speakers or channel of TV. (The REAR VOL. +/-

Feed Back). (for the AV amplifier) MASTER VOL +/- buttons: Control the amplifier's master buttons function for the AV amplifier.)
DBFB button: Turns on/off the DBFB (Dynamic Bass volume. (for the AV amplifier)

# 9 Reset button

Reset the commander to the initial state.

# Note on the ● (recording) button under ⑤ Tape deck/DAT/VCR control section If your recorder is of such type as pressing ● puts it in recording pause mode, first press ● on this commander and then II.

The ▲I► (play) buttons in ② and ⑤ and the SHIFT button, PRESET +/- buttons in ⑤ and CD SYNCHRO buttons in ③ can function without pressing one of the FUNCTION buttons in ③.

# Inserting the batteries into the remote commander

2 Insert two size-AA (R6) batteries with correct 1 Open the cover.

when using the Sony SUM-3 (NS) batteries.
When the batteries are exhausted, the commander can no longer operate the unit. Replace both batteries with new Battery life
About half a year of normal operation can be expected

# To avoid battery leakage When the commander is not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and corrosion.

Avoid keeping the remote commander under extremely hot or humid locations. To avoid malfunction of the remote commander

# 4

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# • TA-AV621 MODEL

At first, this section describes about the connections with the other audio/video equipments and speakers. After that, it also shows about the remote control system and AC outlet.

• Connect the AC power cord last. Make sure power is off.

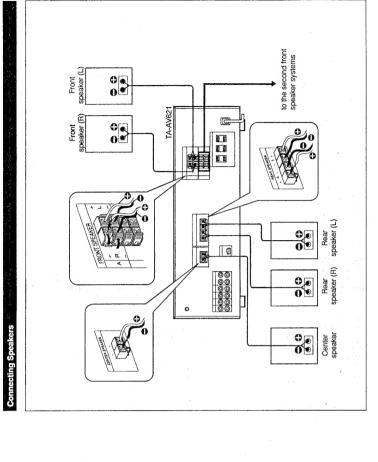
• Jacks and plugs of the connection cord are color-coded as follows:

**Hooking Up the System** 

- Red jacks and plugs: For the right channel of audio signals
  White jacks and plugs: For the left channel of audio signals

  The cable connectors should be fully inserted into the jacks. Loose connections may cause

Connecting Audio Equipment



0

0

Rear speakers let | 

Right 

Center 0

Tape deck

Front speakers Right Left

Connect the front speaker systems to the FRONT SPEAKER A orland B terminals. They can be selected individually or simultaneously with the SPEAKERS selector.

Connect the rear speaker systems to the REAR SPEAKER terminal for enjoying surround sound. Rear speakers

# Center speaker

You can connect a center speaker to the CENTER SPEAKER terminal for enjoying surround sound. The sound such as a diatog comes from the center.

# Note on speaker impedance and power capacity. This amplifier is designed to work best with speakers of nominal impedance from 8 to 16 ohms (Center speaker: from 4 to 15 ohms). Be sure to use a speaker system with adequate power handling capability.

# Note

When connecting the speaker cord to the speaker terminal, make sure that the polatiny (+ and -) of the speaker cord is correct. If the polatity is reversed at either speaker, the sound will be distorted and will lack bass.

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Do not connect any electrical home appliances such as an electric iron, fan, TV or other high wattage equipment to these AC outlets.

CAUTION

Use these to power audio component whose power construction is less than the wattage indicated on the AC outlets. These outlets are controlled by the SYSTEM POWER switch on the front panel.

AC OUTLETS (SWITCHED)

CONTROL S cord (not supplied)
Connect the CONTROL S IN Jack of other Sony equipment with the CONTROL S cord for whole audio system remote control.

0 00

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VCR

To disconnect.

Push in until it clicks.

to a wall outlet

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Tuner -

to AUDIO OUT

(S:-

CD player

to LINE OUT

to LINE OUT to LINE OUT

TA-AV621

(2

NIGO

Turntable 🗀

to LINE OUT D LINE IN

# SECTION 2 DIAGRAMS

# 2-1. IC DESCRIPTION

# • IC101 ( µPD75206GF-722-3BE)

Pin	Port	I/0	ACT	RESET	Outside	
1	RESET	I				
2	tO	0	Н	High	L	DIGIT2
3	t1	0	Н	High	L	DIGIT1
4	t2	0	Н	High	L	DIGIT3
5	t3	0	Н	High	L	DIGIT4
6	t4	0	Н	High	L	DIGIT5
7	t5	0	Н	High	L	DIGIT6
8	t6	0	Н	High	L	DIGIT7
9	t7	0	Н	High	L	DIGIT8
10	t8	0	Н	High	L	DIGIT9
11	t9	0	Н	High	L	NC
12	t10	0	L	High	L	REAR MUTE
13	t11	0	L	High	L	FRONT MUTE
14	t12	0	L	High	L	V-2 (NO USE)
15	t13	0	L	High	L	V-1 REC (NO USE)
16	t14	0	L	High	L	SURROUND A
17	t15	0	L	High	L	SURRONUD B
18	Vload			High		- 30V
19	vpre		_	High		4V
20	s9	0	Н	High	L	DBFB
21	s8	0	H	High	L	SEG1
22	s7	0	Н	High	L	SEG2
23	s6	0	Н	High	L	SEG3
24	s5	0	Н	High	L	SEG4
25	s4	0	H	High	L	SEG5/KEY OUT 5
26	V <sub>DD</sub>			High		+ 5V
27	s3	0	Н	High	L	SEG6/KEY OUT 4
28	s2	0	Н	High	L	SEG7/KEY OUT 3
29	s1	0	Н	High	L	SEG8/KEY OUT 2
30	s0	0	Н	High	L	SEG9/KEY OUT 1
31	p00	I	Н	In	L	STOP
32	p01	I	Н	In	L	KEY IN 2

High: High-impedance status

In : Input status

Pin	Port	1/0	ACT	RESET	Outside	
33	p02	I	Н	In	L	KEY IN 3
34	р03	I	Н	In	L	KEY IN 4
35	p10	I	Н	In	L	KEY IN 5
36	p11	I	Н	In		RM-IN 1
37	p12	I	L	In		KEY IN 1
38	p13	I	L	In		POWER SW
39	p20	0	Н	In	L	ST LC7535/LC7822
40	p21	0	L	In	L	ST LV1001M
41	p22	0	Н	In	L	VOL +
42	p23	0	Н	In	L	VOL –
43	p30	0	Н	In	L	VIDEO A
44	p31	0	Н	In	L	VIDEO B NO USE
45	p32	0	Н	In	L	VIDEO C
46	p33	0	Н	In	L	AUTO LED
47	p60	0	Н	In	. L	CD CONTROL (NO USE)
48	p61	0	H	In	L	CLOCK
49	p62	0 ,	Н	In	,	DATA
50	p63	0	Н	In		FRONT SP RELAY
51	p40	0	H	In	L	REAR SP RELAY
52	p41	0	H	In	L	CENTER SP RELAY
53	p42	0	L	In	L	CENTER MUTE
54	p43	0	Н	In	L	POWER RELAY
55	ppo	0	Н	In	L	P LOGIC 1
56	x1					
57	x2					
58	Vss					
59	xt1					
60	zt2					
61	p50	0	Н	In		P LOGIC 2
62	p51	0	Н	In		P LOGIC 3
63	p52	0	Н	In		P LOGIC 4
64	p53	0	Н	In		P LOGIC 5

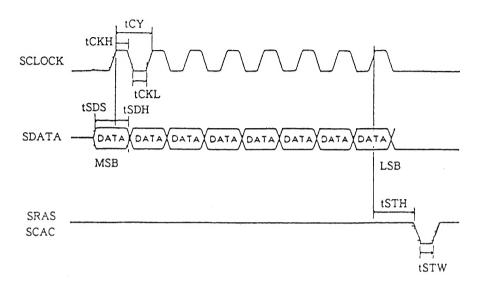
High: High-impedance status

In : Input status

# • IC304 (LV1001M)

Pin No.	Explanations
1	De-couple capacitor for threshold voltage
2, 64	Capacitor for smoothing of rectifier output
3	Capacitor for sliding band filter and Delayed output
4, 62	Capacitor for sliding band filter
5, 61	Capacitor for pre-emphasis
6, 60	Input filter for rectifier
7, 57	Input filter for rectifier
8	Reference voltage
9	Reference voltage
10	Mute control
11	Vcc
12	Output for V <sub>DD</sub>
13	Clock input for serial input, data input for parallel input mode
14	Data input for serial input, data input for parallel input mode
15	Column address selection for serial input, data input for parallel input mode
16	Row address selection for serial input, data input for parallel input mode
18 to 32	Connection to memory device
24	Vss
33	X'tal resonator for oscillator
34	X'tal resonator for oscillator
35	Long or Short mode selection
36	Serial or Parallal mode selection
37	For test mode
38	Smoothing for NR rectifier
39	Smoothing for NR rectifier
40	Capacitor for weighting on side chain path
41	Input for variable resistor
42	NR output
43	7kHz low pass filter output
44	Input for NR
45	Capacitor for de-couple on NR
46	Delay output or NR output
47	Input for mute circuit
48	Output for mute circuit
49	Output for 7kHz low pass filter
50	Input for 7kHz low pass filter
51	GND
52	Input for right channel
53	Input for left channel
54	Capacitor for de-couple on Fixed matrix output
55	Noise shaping and delay input
56	Noise shaping output
57	Delay input signal mode select switch $(L+R/L-R)$
58	Filter for supply voltage on comparator
63	Capacitor for sliding band filter and local decoder output

Input Address Port Timing SHORT MODE

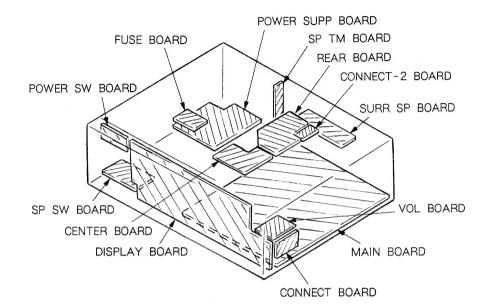


In case of short mode, delay time setting is set in above timing. The date loaded to SDATA is written on the leading edge timing. In order to select that the data latch for row address strobe or column address strobe is loaded, SRAS or SCAS port is controlled.

When changing delay time setting, meaningless data on a memory are read. this causes the pop noise when SRAS or SCAS is controlled, mute circuit (pin 55 is input, pin 56 is output) is activated. Mute time is the same as the delay time which is set at that time. (Serial data input mode only, On parallel data input mode, mute circuit is activated by using the mute control port pin 18.)

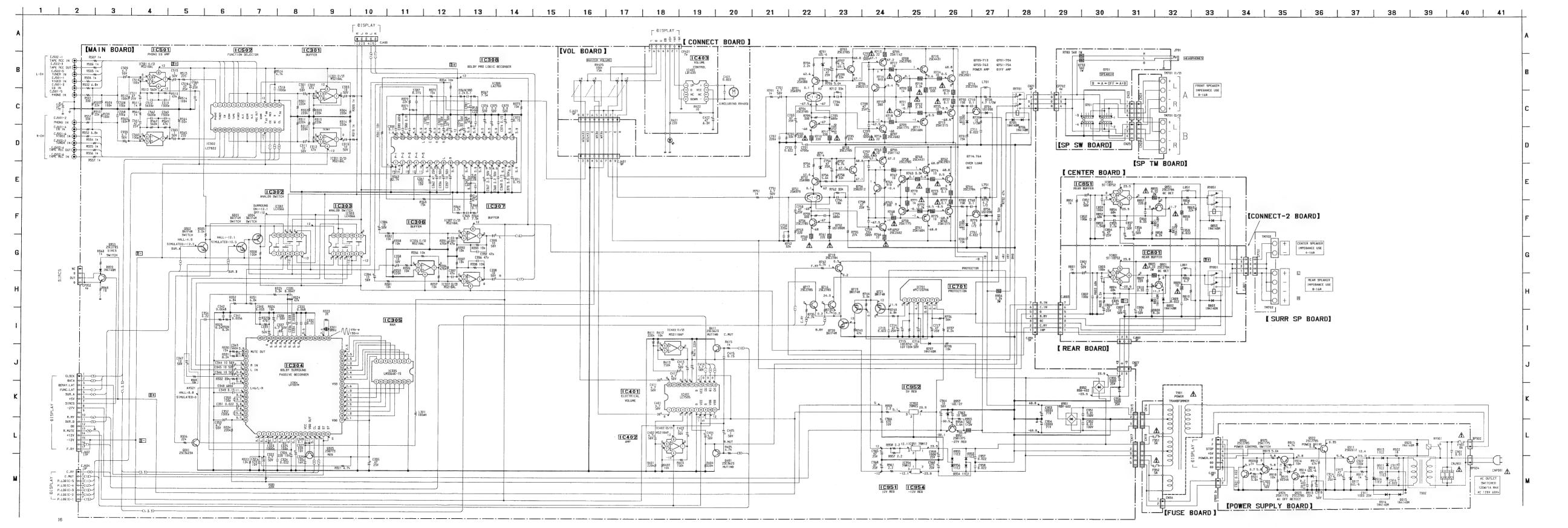
On long mode, input data number is 9, the way of setting delay time is same.

# 2-2. CIRCUIT BOARDS LOCATION



# 2-3. PRINTED WIRING BOARDS • See page 11 for Circuit Boards Location. • See page 23 for Semiconcutor Lead Layouts. Semiconductor Location Ref. No. Location Ref. No. Location Ref. No. Location Ref. No. Location D101 H-20 IC954 F-6 D102 I-20 I-20 IC954 F-6 D103 I-18 Q101 J-18 J-18 D104 I-19 Q103 H-19 J-18 J-19 REAR SPEAKER IMPEDANCE USE 8-16Ω CENTER SPEAKER IMPEDANCE USE 4-16 Ω [POWER SUPP BOARD] [FUSE BOARD] [SP SW BOARD] [CENTER BOARD] S701 SPEAKERS HEADPHONES CONTROL S OUT [DISPLAY BOARD] TAPE REC IN [POWER SW BOARD] [SP TM BOARD] STOTEM POWER ON STAND BY TAPE REC OUT TUNER IN 130 FLI01 Note on Mounting Diagram: Parts extracted from the component side. RV 405 MASTER VOLUME Pattern on the side which is seen. • o---o : Jumper wire connected to the ground pattern on the component side. -12-

# 2-4. SCHEMATIC DIAGRAM —MAIN SECTION— • See page 9 for IC Description. • See page 24 for IC Block Diagrams.



## ote on Schematic Diagram

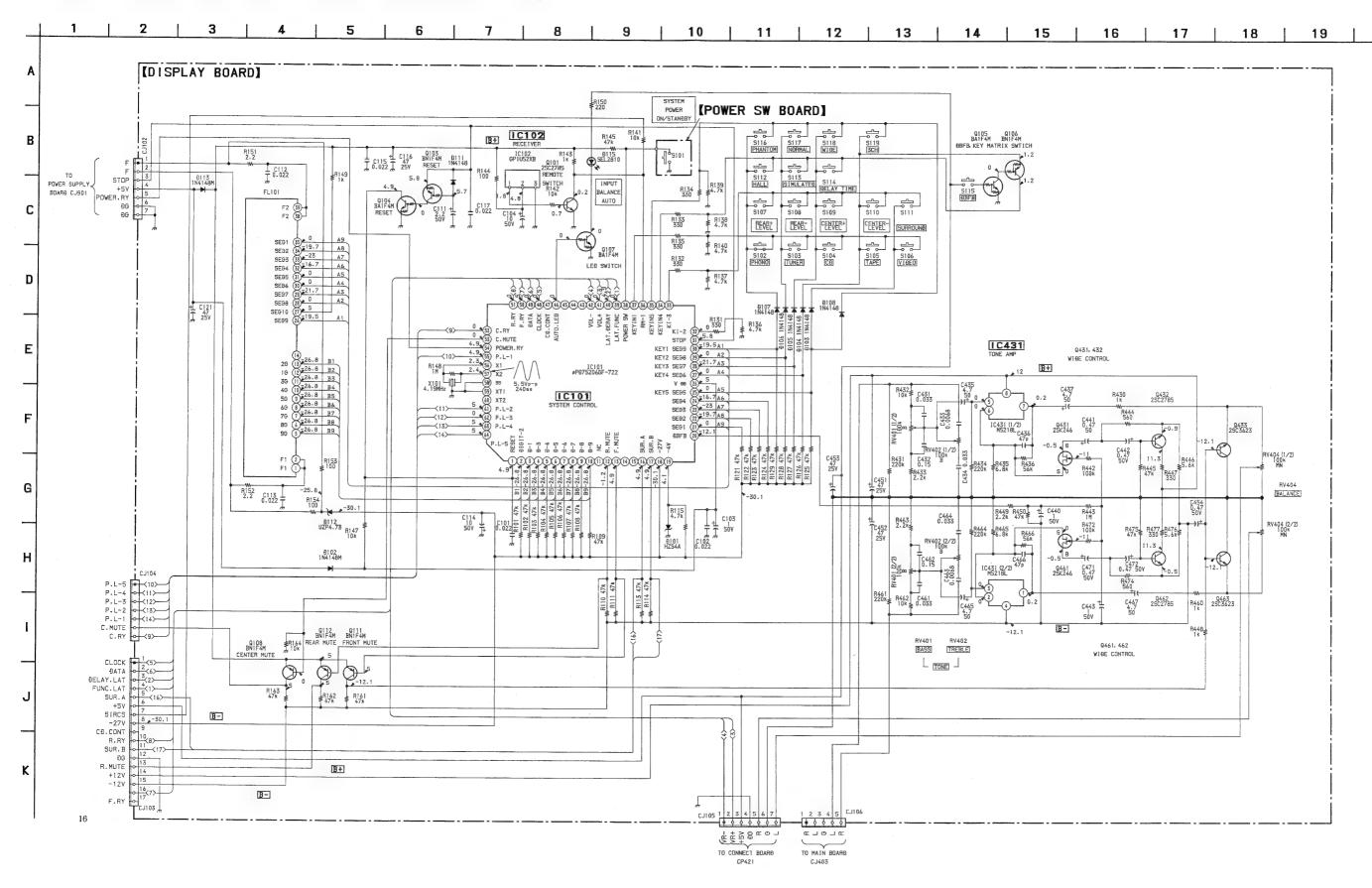
- $\bullet$  All capacitors are in  $~\mu\text{F}$  unless otherwise noted. pF:  $~\mu~\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}$  W or less unless otherwise specified.
- : nonflammable resistor.

Note :The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

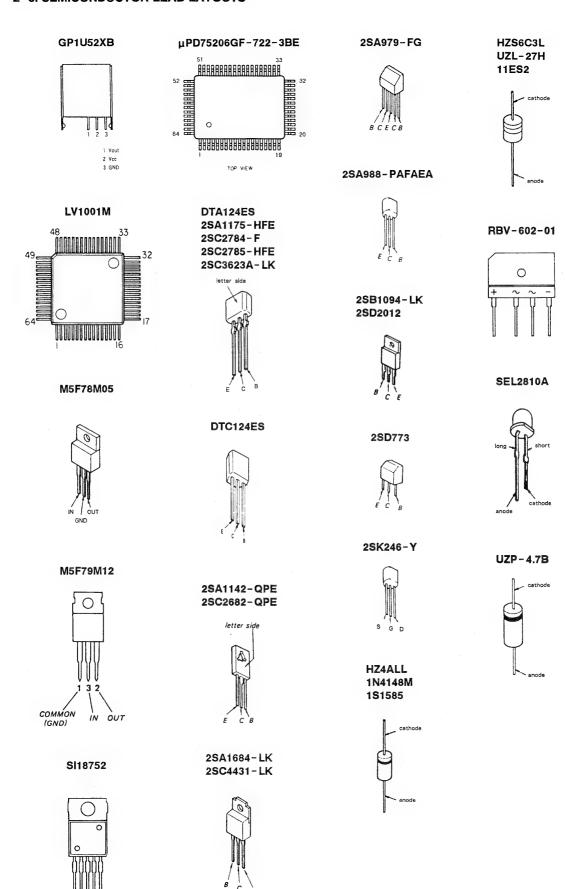
Replace only with part number specified.

- B + : B + Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
   no mark : PHONO
- $\bullet$  Voltages are taken with a VOM (input impedance 10 M $\!\Omega$  ).
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
- ⇒ : PHONO

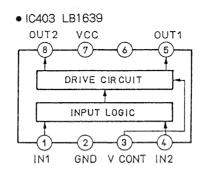
2-5. SCHEMATIC DIAGRAM —POWER SECTION— • See page 7 for IC Description. • See page 20 for Note.



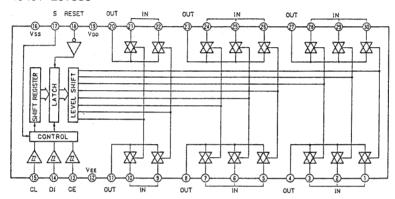
# 2-6. SEMICONDUCTOR LEAD LAYOUTS



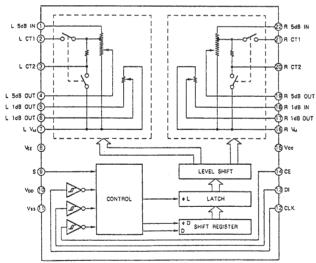
# 2-7. IC BLOCK DIAGRAMS



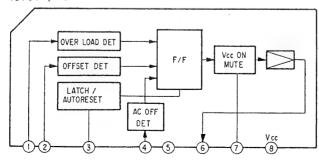
# • IC401 LC7535



# • IC502 LC7822



# • IC701 μPC1237HA



# SECTION 3 EXPLODED VIEWS

## NOTE:

- XX, X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

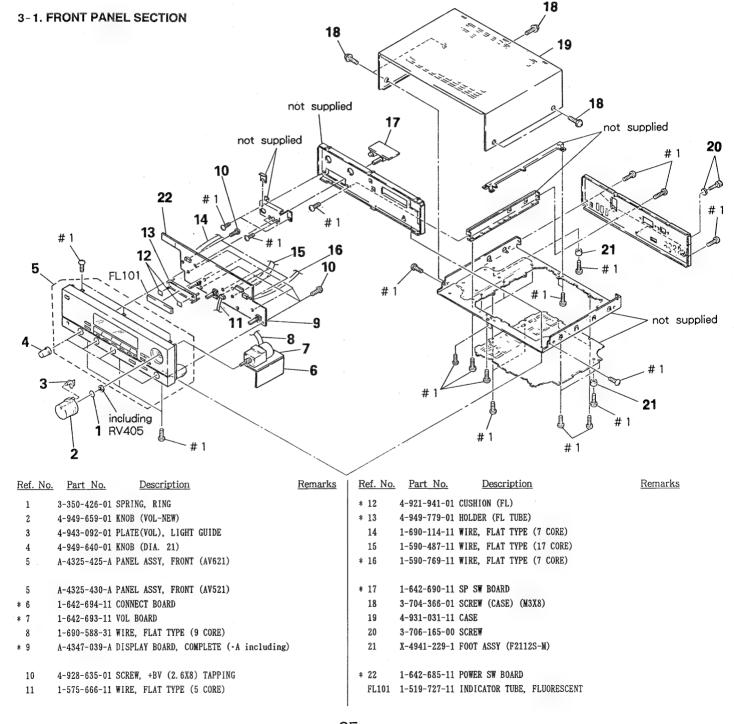
KNOB, BALANCE (WHITE)...(RED)

↑ ↑

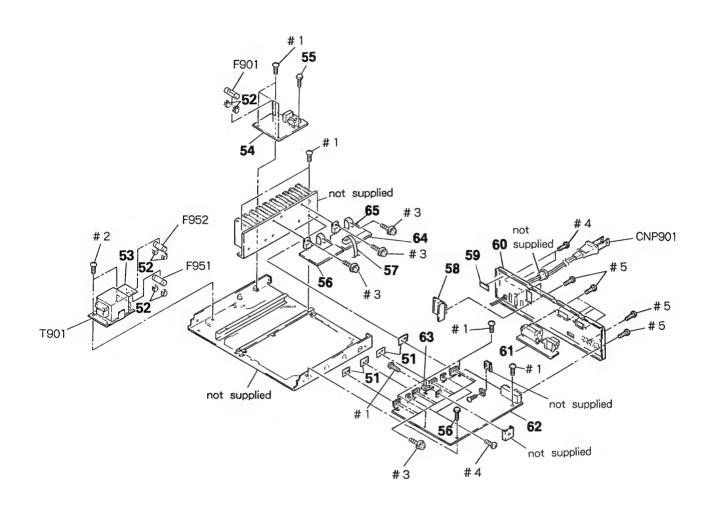
Parts color Cabinet's color

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.



# 3-2. BACK PANEL SECTION



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

Ref. No.	Part No. Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-885-901-31 SHEET, RADIATION		* 60	4-949-769-41	PANEL, BACK (621)	
52	1-533-217-31 HOLDER, FUSE		* 61	1-642-692-11	SURR SP BOARD	
* 53	1-642-689-11 FUSE BOARD		* 62	A-4347-056-A	MAIN BOARD, COMPLETE	
* 54	A-4347-041-A POWER SUPP BOARD, COMPLETE		* 63	4-942-204-01	PLATE, GROUND	
55	2-383-566-00 SCREW		* 64	1-642-684-11	CONNECT-2 BOARD	
* 56	1-642-683-11 CENTER BOARD		* 65	1-642-682-11	REAR BOARD	
* 57	1-590-769-11 WIRE, FLAT TYPE (7 CORE)	l	<b>▲T901</b>	1-450-808-11	TRANSFORMER, POWER	
* 58	1-642-691-11 SP TM BOARD	Ī	<b>▲F901</b>	1-532-749-11	FUSE, GLASS TUBE (8A)	
* 59	3-703-044-26 LABEL, CAUTION	I	<b>▲F951</b>	1-576-109-11	FUSE (5A) 125V	
* 60	4-949-769-31 PANEL, BACK (521)		<b>▲</b> F952	1-576-109-11	FUSE (5A) 125V	
			<b>▲CNP901</b>	1-551-478-00	CORD, POWER	

# SECTION 4 ELECTRICAL PARTS LIST

CENTER CONNECT

CONNECT

## NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark  $\hat{\Delta}$  or dotted line with mark  $\hat{\Delta}$  are critical for safety.

Replace only with part number specified.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS: uF: μF

RESISTORS

All resistors are in ohms.

METAL: metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• COILS

uH: μH

SEMICONDUCTORS
In each case, u: μ, for example: uA...: μA..., uPA..., μPA..., uPB..., μPC..., uPD..., μPD...

Ref. No	. Part No.	Description			Remarks	Ref. No.	Part No.	Description				Remarks
*	1-642-683-11	CENTER BOARD				R856	1-249-389-11	CARBON	4.7	5%	1/4₩	
		*****				R857	1-249-409-11	CARBON	220	5%	1/4W	
						R858	1-249-428-11	CARBON	8. 2K	5%	1/4W	
		< CAPACITOR >				<b>▲</b> R859	1-249-393-11	CARBON	10	5%	1/4W	
						R860	1-249-433-11	CARBON	22K	5%	1/4W	
C851	1-124-927-11	ELECT	4. 7uF	20%	100V							
C852	1-162-282-31	CERAMIC	100PF	10%	50V			< RELAY >				
C853	1-162-282-31	CERAMIC	100PF	10%	50 <b>V</b>							
C854	1-124-477-11	ELECT	47uF	20%	25V	RY851	1-515-790-11	RELAY				
C855	1-162-191-31	CERAMIC	2. 2PF	10%	50V							
C856	1-124-907-11	ELECT	10uF	20%	50V	******	******	*******	*****	*****	******	***
C857	1-124-907-11	ELECT	10uF	20%	50V							
C859	1-164-097-11	CERAMIC	0. 022uF		50V	*	1-642-694-11	CONNECT BOARD				
C860	1-136-171-00	FILM	0. 33uF	5%	50V			********				
		< DIODE >						< CAPACITOR >				
D851	8-719-987-63	DIODE 1N4148M				C422	1-126-154-11	ELECT	47uF		20%	6. 3V
D852	8-719-987-63	DIODE 1N4148M										
D853	8-719-987-63	DIODE 1N4148M						< CONNECTOR >				
		< IC >				CP421	1-569-132-11	PIN, CONNECTOR 7P				
IC851	8-759-502-33	IC SI18752						< RESISTOR >				
		< COIL >				R421	1-249-409-11	CARBON	220	5%	1/4W	
						R422	1-249-393-11	CARBON	10	5%	1/4W	
L851	1-420-872-00	COIL, AIR CORE										
		< TRANSISTOR >				******	*******	***********	*****	****	******	******
Q851	8-729-178-42	TRANSISTOR 2SC2	784-F			*	1-642-684-11	CONNECT-2 BOARD				
		< RESISTOR >										
								< CONNECTOR >				
R851	1-249-417-11	CARBON	1K 5	% 1/4W								
R852	1-249-439-11			% 1/4W		CJ801	1-562-087-00	SOCKET, CONNECTOR	4P			
R853	1-249-419-11		1.5K 5									
R854	1-249-439-11			% 1/4W								
R855	1-217-151-00	RES, METAL PLATE	0. 22			******	********	*********	*****	****	******	**

# DISPLAY

Ref. No	. Part No.	Description	<u>n</u>		Remarks	Ref. No.	Part No.	De	escription	<u>1</u>			Remarks
*	A-4347-039-A	DISPLAY BOARD,	COMPLETE			* CJ105	1-561-651-00	SOCKET.	CONNECTO	)R 7P			
		*********	******			1	1-568-824-11						
						* CP901	1-568-826-11	SOCKET,	CONNECTO	OR 7P			
	1-533-217-31	HOLDER, FUSE											
*		CUSHION (FL)						< DIODE	>				
*	4-949-779-01	HOLDER (FL TUBE	:)										
						D101	8-719-985-53		HZ4ALL				
		< CAPACITOR >				D102	8-719-987-63		1N4148N				
C101	1 164 007 11	CEDANIC	0.000.7		F 0 1/	D103	8-719-987-63		1N4148M				
C101	1-164-097-11 1-164-097-11		0. 022uF 0. 022uF		50V 50V	D104	8-719-987-63		1N4148N				
C103	1-124-903-11		0. 022ur 1uF		50V	D105	8-719-987-63	שמטוע	1N4148M				
C104	1-124-907-11		10uF		50V	D106	8-719-987-63	DIODE	1N4148N				
C111	1-124-925-11		2. 2uF		100V	D107	8-719-987-63		1N4148M				
						D108	8-719-987-63		1N4148M				
C112	1-164-097-11	CERAMIC	0. 022uF		50V	D111	8-719-987-63	DIODE	1N4148M				
C113	1-164-097-11	CERAMIC	0.022uF		50V	D112	8-719-014-48	DIODE	UZP-4. 7E	3			
C114	1-124-907-11	ELECT	10uF	20%	50V								
C115	1-164-097-11		0. 022uF		50V	D113	8-719-987-63	DIODE	1N4148M				
C116	1-124-477-11	ELECT	47uF	20%	25V	D115	8-719-301-49	DIODE	SEL2810A	1			
C117	1-164-097-11	CERAMIC	0. 022uF		50V			< FILTE	R >				
C121	1-124-477-11		47uF		25V				. ,				
C431	1-130-489-00	MYLAR	0. 033uF	5%	50V	FL101	1-519-727-11	INDICAT	OR TUBE,	FLUO	RESCENT	ſ	
C432	1-136-167-00	FILM	0.15uF	5%	50V								
C433	1-130-481-00	MYLAR	0.0068uF	5%	50V			< IC >					
C434	1-130-489-00	MYLAR	0. 033uF	5%	50V	IC101	8-759-062-41	IC uP	D75206GF-	722-3	BE		
C435	1-124-927-11	ELECT	4. 7uF	20%	100V	IC102	8-749-920-83		1U52XB				
C436	1-162-215-31	CERAMIC	47PF	5%	50V	IC431	8-759-634-50	IC MS	218AL				
C437	1-124-927-11	ELECT	4. 7uF	20%	100V								
C440	1-124-903-11	ELECT	1uF	20%	50V			< TRANS	ISTOR >				
C441	1-124-902-00	ELECT	0. 47uF	20%	50V	Q101	8-729-119-78	TRANSIS	TOR 2SC	2785-	-HFE		
C442	1-124-902-00	ELECT	0.47uF	20%	50V	Q103	8-729-900-63			124ES			
C443	1-124-903-11	ELECT	1uF	20%	50 <b>V</b>	Q104	8-729-900-36	TRANSIS	TOR DTC	124ES	3		
C451	1-124-477-11	ELECT	47uF	20%	25V	Q105.	8-729-900-36	TRANSIS	TOR DTC	124ES	;		
C452	1-124-477-11	ELECT	47uF	20%	25V	Q106	8-729-900-63	TRANSIS	TOR DTA	124ES	;		
C453	1-124-477-11	ELECT	47uF	20%	25V	Q107	8-729-900-36	TRANSIS	TOR DTC	124ES	s		
C454	1-124-902-00	ELECT	0. 47uF	20%	50 <b>V</b>	Q108	8-729-900-63	TRANSIS	TOR DTA	124ES	;		
C461	1-130-489-00	MYLAR	0. 033uF	5%	50 <b>V</b>	Q111	8-729-900-63	TRANSIS	TOR DTA	124ES	3		
C462	1-136-167-00	FILM	0. 15uF	5%	50 <b>V</b>	Q112	8-729-900-63	TRANSIS	TOR DTA	124ES	;		
C463	1-130-481-00	MYLAR	0.0068uF	5%	50V	Q431	8-729-224-61	TRANSIS	TOR 2SK	246-1	1		
C464	1-130-489-00	MYLAR	0. 033uF	5%	50V	Q432	8-729-119-78	TRANSIS	TOR 2SC	2785-	HFE		
C465	1-124-927-11	ELECT	4. 7uF	20%	100V	0433	8-729-141-30	TRANSIS		3623/			
C466	1-162-215-31	CERAMIC	47PF	5%	50 <b>V</b>	Q461	8-729-224-61	TRANSIS	TOR 2SK	246-1	!		
C467	1-124-927-11		4. 7uF	20%	100V	Q462	8-729-119-78	TRANSIS	TOR 2SC	2785-	HFE		
C471	1-124-902-00	ELECT	0.47uF	20%	50V	Q463	8-729-141-30	TRANSIS	TOR 2SC	3623/	ı-LK		
C472	1-124-902-00	ELECT	0.47uF	20%	50 <b>V</b>			< RESIS	TOR >				
		< CONNECTOR >				R101	1-249-437-11	CARBON		47K	5%	1/4W	
						R102	1-249-437-11			47K	5%	1/4W	
* CJ101	1-565-480-11	CONNECTOR, BOAR	D TO BOARD 4	.P		R103	1-249-437-11			47K	5%	1/4W	
CJ102	1-691-644-11	SOCKET, CONNECT	OR 7P			R104	1-249-437-11			47K	5%	1/4W	
		SOCKET, CONNECT				R105	1-249-437-11	CARBON		47K	5%	1/4W	
CJ104	1-691-644-11	SOCKET, CONNECT	OR 7P										

# DISPLAY

Ref. No	o. Part No.	Description	1			Remarks	Ref. No.	Part No.	Descript	ion			Remarks
R106	1-249-437-11 CA	ARBON	47K	5%	1/4W		R434	1-247-887-00	CARBON	220K	5%	1/4W	
R107	1-249-437-11 CA	ARBON	47K	5%	1/4W		I	1-249-427-11		6.8K		1/4W	
R108	1-249-437-11 CA	IRBON	47K	5%	1/4W			1-249-438-11		56K		1/4W	
R109	1-249-437-11 CA	IRBON	47K	5%	1/4W		l	1-249-441-11		100K		1/4W	
R110	1-249-437-11 CA		47K	5%	1/4W		1	1-247-903-00		1M	5%	1/4W	
D111	™ 040 407 11 G	DDON	400	F0/	4 /477								
R111	1-249-437-11 CA		47K	5%	1/4W			1-249-414-11		560	5%	1/4W	
R113	1-249-437-11 CA		47K	5%	1/4W			1-249-437-11		47K	5%	1/4W	
R114	1-249-437-11 CA		47K	5%	1/4W		1	1-249-426-11		5. 6K		1/4W	
R115	1-249-425-11 CA		4. 7K		1/4W		I	1-249-411-11		330	5%	1/4W	
R117	71-249-437-11 CA	KBON	47K	5%	1/4W		R448	1-249-417-11	CARBON	1K	5%	1/4W	
R121	1-249-437-11 CA	RBON	47K	5%	1/4W		R448	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R122	1-249-437-11 CA	RBON	47K	5%	1/4W		R449	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R123	1-249-437-11 CA	RBON	47K	5%	1/4W		R450	1-249-437-11	CARBON	47K	5%	1/4W	
R124	1-249-437-11 CA	RBON	47K	5%	1/4W		R460	1-249-417-11	CARBON	1K	5%	1/4W	
R125	1-249-437-11 CA	RBON	47K	5%	1/4W		R461	1-247-887-00	CARBON	220K	5%	1/4W	
R126	1-249-437-11 CA	RBON	47K	5%	1/4W		R462	1-249-429-11	CARBON	10K	5%	1/4W	
R127	1-249-437-11 CA		47K	5%	1/4W	*		1-249-421-11		2. 2K		1/4W	
R128	1-249-437-11 CA		47K	5%	1/4W			1-247-887-00		220K		1/4W	
	1-249-437-11 CA		47K	5%	1/4W			1-249-427-11		6. 8K		1/4W	
R131	1-249-411-11 CA		330	5%	1/4W			1-249-438-11			5%	1/4W	
D122	1_2/0_/11 11 01	DDAN	220	E0	1 / 4 90		D 450	1 040 444 25	GIRRON	4 * * *	F0'	4 /407	
R132	1-249-411-11 CA		330	5%	1/4W			1-249-441-11		100K		1/4W	
R133	1-249-411-11 CA		330	5%	1/4W			1-249-414-11		560	5%	1/4W	
R134 R135	1-249-411-11 CA		330	5%	1/4W			1-249-437-11		47K	5%	1/4W	
R136	1-249-411-11 CA 1-249-425-11 CA		330 4. 7K	5% 5%	1/4W 1/4W			1-249-426-11 1-249-411-11		5. 6K 330		1/4W 1/4W	
				0.0	2/ 1"		MX11	1 040 411 11	OMDON	000	576	1/ 4#	
	71-249-425-11 CA		4. 7K		1/4W				< VARIABLE RES	SISTOR >			
R138	1-249-425-11 CA		4. 7K		1/4W								
R139	1-249-425-11 CA		4. 7K		1/4W				RES, VAR, CARE				
R140	1-249-425-11 CA		4. 7K		1/4W				RES, VAR, CARE				
R141	1-249-429-11 CA	KBUN .	10K	5%	1/4W		KV404	1-238-965-21	RES, VAR, CARE	30N 100K	/100K	(BALANCE)	
R142	1-249-429-11 CA	RBON	10K	5%	1/4W				< SWITCH >				
R143	1-249-417-11 CA	RBON :	1 K	5%	1/4W								
	1-249-405-11 CA		100	5%	1/4W		S102	1-554-303-21	SWITCH, TACTIL	E (PHON	0)		
R145	1-249-437-11 CA	RBON	47K	5%	1/4W		S103	1-554-303-21	SWITCH, TACTIL	E (TUNE	R)		
R147	1-249-429-11 CA	RBON :	10K	5%	1/4W		S104	1-554-303-21	SWITCH, TACTIL	E (CD)			
							S105	1-554-303-21	SWITCH, TACTIL	E (TAPE)	)		
R148	1-247-903-00 CAI		l M	5%	1/4W		S106	1-554-303-21	SWITCH, TACTIL	E (VIDE	0)		
R149	1-249-417-11 CA		1 K	5%	1/4W								
R150	1-249-409-11 CA		220	5%	1/4W		S107	1-554-303-21	SWITCH, TACTIL	E (REAR	+LEVE	EL)	
R151	1-249-385-11 CAI		2. 2	5%	1/6W		S108	1-554-303-21	SWITCH, TACTIL	E (REAR	-LEVE	EL)	
R152	1-249-385-11 CAI	RBON 2	2. 2	5%	1/6W			1-554-303-21	SWITCH, TACTIL	E (CENT)	ER +LE	EVEL)	
R153	1-249-405-11 CA	RON 1	100	59	1 /AW				SWITCH, TACTIL			EVEL)	
R154	1-249-405-11 CAI 1-249-405-11 CAI		L00	5% 5%	1/4W		S111	1-004-303-21	SWITCH, TACTIL	E (SUKK)	(עאטט		
R161			100 17k	5% 5%	1/4W		0110	1 554 900 01	CWITCH TIONT	p /11/11			
162	1-249-437-11 CAL		17K 17K	5% 5%	1/4W				SWITCH, TACTIL				
163	1-249-437-11 CAF		17K 17K	5% 5%	1/4W				SWITCH, TACTIL				
7109	1-249-437-11 CAF	ADON 4	17K	5%	1/4W				SWITCH, TACTIL SWITCH, TACTIL			5)	
R164	1-249-429-11 CAF	RBON 1	OK	5%	1/4W,				SWITCH, TACTIL				
	1-249-417-11 CAF		K	5%	1/4W			000 11		(1 mm).	- 014/		
3430			220K		1/4W		S117	1-554-303-21	SWITCH, TACTIL	E (NORM	AL)		
	1-247-887-00 CAF					I		000 81	44101114	- (TINTER	/		
R431				5%	1/4W		S118	1-554-303-21	SWITCH TACTU	E (MIDE)	)		
R430 R431 R432 R433	1-249-429-11 CAF 1-249-421-11 CAF	RBON 1			1/4W 1/4W				SWITCH, TACTIL SWITCH, TACTIL		)		

# DISPLAY FUSE MAIN

Ref. No	Part No.	Description	<u>1</u>		Remarks	Ref. No.	Part No.	Descript	tion_		]	Remarks
		< VIBRATOR >				C342	1-102-127-00	CERANIC	6800PF	10%	50Y	
						1	1-162-291-31		560PF	10%	50V	
X101	1-577-101-11	VIBRATOR, CERAM	IC 4 19NHz				1-124-907-11		10uF	20%	50V	
AIUI	1 011 101 11	TIDIMION, ODMIN	IO I. IOIIII			1	1-124-907-11		10uF	20%	50V	
							1-124-907-11		10uF	20%	50V	
******	*******	*******	*******	******	****	0010	1 121 00, 11		1001	20.0	001	
*******		***************************************	***************************************		****	C347	1-124-907-11	FLECT	10uF	20%	50V (	AV521)
*	1-642-689-11	FUSE BOARD				1	1-162-292-31		680PF	10%	50V	.,,,,
T	1 042 003 11	******					1-136-167-00		0. 15uF	5%	50V	
		********				C350	1-162-284-31		150PF	10%	. 50V	
		< FUSE >				1	1-130-487-00		0. 022uF	5%	50V	
		( PODE /				0001	1 100 401 00	H I LIIII	v. v22di	0,0	001	
<b>A</b> F951	1-576-109-11	FUSE (5A) 125V				C352	1-162-294-31	CERANIC	0. 001uF	10%	50V	
		FUSE (5A) 125V				C353	1-124-927-11		4. 7uF	20%	100V	
221 002	1 010 100 11	1002 (01) 1201				C354	1-136-169-00		0. 22uF	5%	50V	
						C355	1-124-477-11		47uF	20%	25V	
******	*******	******	********	******	*	C358	1-124-907-11		10uF	20%	50V	
*******	*******	*************	************		*	0000	1 124 007 11	DDDO1	1041	2070	00,	
*	A-4347-056-A	MAIN BOARD, COM	DI RTR			C361	1-126-923-11	FIFCT	220uF	20%	10V	
7	A-4341-030-A	********				C362	1-124-477-11		47uF	20%	25V	
		****	*****			C363	1-124-252-00		0. 33uF	20%	50V	
	1_522_217_21	HOLDER, FUSE				C364	1-162-292-31		680PF	10%	50V	
*		PLATE, GROUND				1	1-136-165-00		0. 1uF	5%	50V	
•		SCREW +BVTT 3	V9 (C)			6303	1-130-103-00	FILM	v. Iur	J /6	301	
	1-002-340-04	SOUTH TOALL 9	VO (2)			C366	1-136-165-00	RIIM	0. 1uF	5%	50V	
		/ CADACITOD >				C367	1-124-925-11		2. 2uF	20%	100V	
		< CAPACITOR >				C368	1-124-925-11		2. 2ur 2. 2uF	20%	100V	
C201	1 194 007 11	DIRCT	10P	200	50V		1-136-167-00		2. 2ur 0. 15uF	5%	50V	
	1-124-907-11		10uF 47PF	20%	50V	C370	1-130-107-00		3. 3uF	20%	100V	
C302	1-162-215-31			5%		6310	1-145-564-00	ELECT	o. our	20%	1001	
	1-124-907-11		10uF	20%	50V	C271	1 196 167 00	DILA	0.15	5%	50V	
	1-124-907-11		10uF	20%	50 <b>V</b>	1	1-136-167-00		0. 15uF 0. 15uF	5%	50V	
C312	1-162-215-31	CERAMIC	47PF	5%	50V	1	1-136-167-00			20%		
0010	1 104 007 11	DI DOT	10. B	0.00	FAV		1-123-382-00		3. 3uF	5%	100V 50V	
C313	1-124-907-11		10uF	20%	50V	1	1-136-167-00		0. 15uF 2. 2uF	20%	1007	
C321	1-126-925-11		470uF	20%	10V	C375	1-124-925-11	ELECI	2. 2ur	20%	1004	
C322	1-124-927-11		4. 7uF	20%	100V	C270	1-124-925-11	PIPCT	3 0	200	100V	
C323	1-162-294-31 1-130-487-00		0.001uF	10%	50V		1-162-292-31		2. 2uF 680PF	20% 10%	50V	
C324	1-130-467-00	MILAR	0. 022uF	5%	50V	C378	1-102-252-31		0. 33uF	20%	50V	
0205	1 100 004 21	CEDANIC	1 EADE	1.09	EOV	C379		-		20% 5%	50V	
	1-162-284-31		150PF	10%	50V	C380	1-136-165-00		0. 1uF 0. 1uF	5%	50V	
C326	1-126-923-11		220uF	20%	10V	(201	1-136-165-00	) FILM	v. Tur	3/6	301	
C327	1-126-923-11 1-164-159-11		220uF	20%	10V	(202	1 124 002 00	DI DOT	0. 47uF	20%	50V	
C328			0. 1uF	208	50V	C382	1-124-902-00			20%	50V	
C329	1-126-933-11	ELECI	100uF	20%	16V	C383	1-124-907-11		10uF	20%	50V	
casa		PHI	0.22E	EW	EAV	C385	1-124-907-11		10uF 0. 015uF		50V	
C332	1-136-169-00		0. 22uF	5%	50V	C387	1-130-485-00			5% 5v	50V	
C333	1-130-493-00		0. 068uF	5%	50V	C388	1-130-483-00	MILAK	0. 01uF	5%	901	
C334	1-102-124-00		0.0039uF	10%	50V	C200	1 100 000 01	CEDANIC	COADE	100	50V	
C335	1-102-125-00		4700PF	10%	50V	C389	1-162-292-31		680PF	10%		
C336	1-130-489-00	MILAK	0. 033uF	5%	50V	C390	1-136-165-00		0. 1uF	5% 20%	50V 50V	
	1 104 007 11	I DI DOT	4 7E	200	1007	C384	1-124-907-11		10uF	20%		
C337	1-124-927-11		4. 7uF	20%	100V	C386	1-124-907-11		10uF	20%	50V	
C338	1-124-903-11		1uF	20%	50V	C391	1-162-215-31	LUERAMIU	47PF	5%	50V	
C339	1-124-903-11		1uF	20%	50V	0000	1_100 015 01	1 CEDINIC	ATDE	Eo	EON	
C340	1-130-489-00		0. 033uF	5%	50V	C392	1-162-215-31		47PF	5%	50V	
C341	1-102-126-00	J CERAMIC	0. 0056uF	10%	50V	C393	1-124-907-11		10uF	20%	50V	
						C396	1-162-215-31		47PF	5% ==v	50V	
						C397	1-162-215-31		47PF	5%	50V	
						C398	1-124-907-11	I EFECT	10uF	20%	50V	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

# MAIN

Ref. No.	Part No.	Descripti	ion		<u>Remarks</u>	Ref. No.	Part No.	Descrip	tion		Remarks
C401	1-124-927-11	ELECT	4. 7uF	20%	100V	C753	1-124-477-11	ELECT	47uF	20%	25V
C402	1-124-927-11		4. 7uF	20%	100V	C754	1-124-477-11		47uF	20%	25V
C403	1-124-927-11		4. 7uF	20%	100V	C755	1-162-292-31		680PF	10%	50V
C404	1-124-927-11		4. 7uF	20%	100V	C756	1-162-205-31		18PF	5%	50V
C405	1-124-903-11		1uF	20%	50V	C757	1-161-959-00		22PF	10%	500V
										20.0	
C411	1-124-927-11	ELECT	4. 7uF	20%	100V	C758	1-124-477-11	ELECT	47uF	20%	25V
C412	1-124-927-11	ELECT	4. 7uF	20%	100V	C759	1-161-959-00		22PF	10%	500V
C413	1-124-927-11	ELECT	4. 7uF	20%	100V	C760	1-136-165-00	FILM	0. 1uF	5%	50V
C414	1-124-927-11	ELECT	4. 7uF	20%	100V	C761	1-130-487-00	MYLAR	0. 022uF	5%	50Y
C415	1-136-167-00	FILM	0. 15uF	5%	50V	C951	1-106-367-00	MYLAR	0. 01uF	5%	200V
C508	1-162-282-31	CERAMIC	100PF	10%	50V	C952	1-106-367-00	MYLAR	0.01uF	5%	200V
C509	1-124-927-11	ELECT	4. 7uF	20%	100V	C953	1-125-730-21	ELECT	10000uF	20%	71V
C510	1-162-282-31	CERANIC	100PF	10%	50V	C954	1-125-730-21	ELECT	10000uF	20%	71V
C511	1-124-477-11	ELECT	47uF	20%	25V	C955	1-124-636-00	ELECT	3300uF	20%	25V
C512	1-102-126-00	CERAMIC	0.0056uF	10%	50V	C956	1-124-636-00	ELECT	3300uF	20%	25V
0510	1 100 110 00										
C513	1-102-119-00		1500PF	10%	50V	i	1-124-557-11		1000uF	20%	25V
C515	1-124-903-11		1uF	20%	50V	C957	1-164-097-11		0. 022uF		50V
C516	1-124-477-11		47uF	20%	25V	C958	1-164-097-11		0. 022uF		50V
C517	1-124-907-11		10uF	20%	50V	C960	1-124-480-11		470uF	20%	25V
C518	1-162-294-31	CERAMIC	0. 001uF	10%	50V	C963	1-124-907-11	ELECT	10uF	20%	50V
C356	1-124-907-11	FIRCT	10uF	20%	50V	C964	1-124-907-11	DIECT	10uF	20%	50V
C357	1-124-907-11		10uF	20%	50V	l .	1-124-907-11		47uF	20%	25V
C558	1-162-282-31		100PF	10%	50V	C966	1-124-477-11		470r 470uF		
C559	1-124-927-11		4. 7uF	20%	100V		1-124-477-11		470ur 47uF	20% 20%	10V 25V
C560	1-162-282-31		100PF	10%	50V	6300	1 124 477 11	BESCI	4101.	20%	231
0000	1 102 202 01	ODMINETO	10011	10%	001			< CONNECTOR >			
C561	1-124-477-11	ELECT	47uF	20%	25V			COMMENTAL			
C562	1-102-126-00		0. 0056uF	10%	50V	* CJ401	1-568-828-11	SOCKET, CONNE	CTOR 9P		
C563	1-102-119-00		1500PF	10%	50V	l		SOCKET, CONNE			
C565	1-124-903-11	ELECT	1uF	20%	50V			SOCKET, CONNE			
C566	1-124-477-11	ELECT	47uF	20%	25V			SOCKET, CONNE			
						CJ501	1-580-826-11	JACK, PIN 6P			
C701	1-124-927-11	ELECT	4. 7uF	20%	100V						
C702	1-162-286-31	CERAMIC	220PF	10%	50V	CJ502	1-580-825-11	JACK, PIN 6P			
C703	1-124-477-11	ELECT	47uF	20%	25V	* CJ701	1-568-826-11	SOCKET, CONNE	CTOR 7P		
C704	1-124-477-11	ELECT	47uF	20%	25V	CP952	1-566-211-11	PIN, CONNECTO	R 4P		
C705	1-162-292-31	CERAMIC	680PF	10%	50V						
								< DIODE >			
C706	1-162-205-31		18PF	5%	50V						
	1-161-959-00		22PF	10%	500V		8-719-933-41				
C708	1-124-477-11		47uF	20%	25V		8-719-815-85				
	1-161-959-00		22PF	10%	500V		8-719-815-85				
C710	1-136-165-00	FILM	0. 1uF	5%	50V		8-719-815-85				
0711	1 100 407 00 1	WWI AD	0 000 D	F0/	501	D705	8-719-987-63	DIODE 1N414	8 N		
	1-130-487-00		0. 022uF	5%	50V	2000		D. T.O.D			
	1-164-097-11		0. 022uF	200	50V		8-719-987-63				
	1-124-477-11 1 1-126-933-11 1		47uF 100uF	20%	25V		8-719-987-63				
	1-124-907-11		10ur 10uF	20% 20%	16V 50V		8-719-933-41				
0110	* 184 AA1_11	255V1	I vul	2070	001		8-719-815-85 8-719-815-85				
C717	1-124-477-11	ELECT	47uF	20%	25V	טטוע	O 114 019_09	10199	v		
	1-102-125-00		4700PF	10%	50V	D754	8-719-815-85	DIODE 1S158	5		
	1-164-097-11 (		0. 022uF		50V		8-719-302-38				
	1-124-927-11 I		4. 7uF	20%	100V		8-719-312-09				
	1-162-286-31		220PF	10%	50V		8-719-200-82				
				•			8-719-200-82				
					1	=	<b>-</b>				

# MAIN

Ref. No.	Part No.	Descrip	tion	Remarks	Ref. No.	Part No.	Descrip	tion_			Remarks
D955	8-719-200-82 DIO	DE 11ES	2	. 1	Q714	8-729-178-42	TRANSISTOR	2SC2784-F			
D956	8-719-200-82 DIO					8-729-119-78		2SC2785-H	E		
D957	8-719-002-48 DIO		27Н		Q717	8-729-119-78		2SC2785-HI	E		
D959	8-719-987-63 DIO	DE 1N414	48M		Q718	8-729-178-42	TRANSISTOR	2SC2784-F			
					Q719	8-729-900-63	TRANSISTOR	DTA124ES			
	< I	C >									
					Q720	8-729-900-36		DTC124ES			
	8-759-634-50 IC	M5218AL			Q721	8-729-900-63		DTA124ES			
	8-759-801-01 IC	LC4966			Q751	8-729-900-63		DTA124ES			
	8-759-801-01 IC	LC4966			Q751	8-729-620-18		2SA979-FG	2424		
	8-759-823-63 IC	LV1001M	15		Q752	8-729-140-82	1KANS1S1UK	2SA988-PAI	AEA		
10300	8-759-821-13 IC	LM3364K-	-10		Q753	8-729-119-78	TDANCICTOD	2SC2785-HI	rin.		
10306	8-759-634-50 IC	M5218AL			Q754	8-729-119-78		2SC2785-H			
	8-759-634-50 IC	M5218AL			Q755	8-729-141-06		2SA1142-Q			
	8-759-047-15 IC	LA2780			Q756	8-729-209-15		2SD2012			
	8-759-820-11 IC	LC7535			Q757	8-729-141-05		2SC2682-Q	PE		
	8-759-634-51 IC	M5218AP			••••				_		
10102	0 100 001 01 10	20220.11			Q758	8-729-119-78	TRANSISTOR	2SC2785-H	FE		
IC403	8-759-820-62 IC	LB1639			Q759	8-729-119-76		2SA1175-H			
	8-759-634-51 IC	M5218AP			Q760	8-729-141-46	TRANSISTOR	2SC4431-L	K		
IC502	8-759-805-14 IC	LC7822			Q761	8-729-141-37	TRANSISTOR	2SA1684-L	K		
IC701	8-759-111-68 IC	uPC1237	HA		Q762	8-729-320-96	TRANSISTOR	2SC2921			
IC951	8-759-604-39 IC	AN6291									
					Q763	8-729-320-73	TRANSISTOR	2SA1215			
IC952	8-759-604-35 IC	M5F78M0	5		Q764	8-729-178-42	TRANSISTOR	2SC2784-F			
IC954	8-759-604-45 IC	M5F79M1	2		Q951	8-729-141-83	TRANSISTOR	2SB1094-L	K		
					Q953	8-729-119-78	TRANSISTOR	2SC2785-H	FE		
	< 0	COIL >									
							< RESISTOR >				
L301	1-410-521-11 IND		100uH	İ	D004	1 045 005 00	O A D D O M	0007	F0/	1 /400	
L701	1-420-872-00 COI				R301	1-247-887-00		220K		1/4W	
L751	1-420-872-00 CO	IL, AIR CO	KE		R302	1-247-887-00		220K		1/4W	
	/ 1	TRANSISTOR	`		R303	1-247-887-00 1-247-887-00		220K 220K		1/4W 1/4W	
	<b>\</b> 1	MUICICHANI			R304 R305	1-249-423-11		3. 3K		1/4W	
Q301	8-729-141-30 TR	ANSISTOR	2SC3623A-LK		Kooo	1 240 420 11	Childon	0.01	070	1/ 11	
Q302	8-729-900-36 TR		DTC124ES		R306	1-249-433-11	CARBON	22K	5%	1/4W	
Q303	8-729-900-36 TR		DTC124ES		R308	1-249-441-11		100K		1/4W	
Q304	8-729-900-63 TRA		DTA124ES		R309	1-249-417-11			5%	1/4W	
Q305	8-729-140-98 TRA		2SD773		R311	1-247-887-00		220K	5%	1/4W	
					R312	1-247-887-00	CARBON	220K	5%	1/4W	
Q401	8-729-141-30 TR	ANSISTOR	2SC3623A-LK								
Q411	8-729-141-30 TR	ANSISTOR	2SC3623A-LK		R313	1-247-887-00	CARBON	220K	5%	1/4W	
Q701	8-729-620-18 TR	ANSISTOR	2SA979-FG		R314	1-247-887-00	CARBON	220K	5%	1/4W	
Q702	8-729-140-82 TR	ANSISTOR	2SA988-PAFAEA		R319	1-249-417-11	CARBON	1K	5%	1/4W	
Q703	8-729-119-78 TR	ANSISTOR	2SC2785-HFE		R321	1-249-425-11	CARBON	4.7K	5%	1/4W	
					R322	1-249-430-11	CARBON	12K	5%	1/4W	
Q704	8-729-119-78 TR	ANSISTOR	2SC2785-HFE								
Q705	8-729-141-06 TRA		2SA1142-QPE		R323	1-247-903-00		1M	5%	1/4W	
Q706	8-729-209-15 TRA		2SD2012		R324	1-249-437-11			5%	1/4W	
Q707	8-729-141-05 TR		2SC2682-QPE		R325	1-249-423-11		3. 3K		1/4W	
Q708	8-729-119-78 TR	ANSISTOR	2SC2785-HFE		R326	1-249-429-11			5% 5%	1/4W	
0700	0 790 110 70 70	A NIC FOTOD	904117E HEE		R327	1-249-413-11	. CAKBUN	470	5%	1/4W	
Q709	8-729-119-76 TR		2SA1175-HFE		Dago	1_9/0_/90 11	CYDDUM	0 017	ĘΨ	1 /AW	
Q710	8-729-141-46 TR		2SC4431-LK		R328	1-249-428-11		8. 2K		1/4W 1/4W	
Q711 Q712	8-729-141-37 TRA 8-729-320-96 TRA		2SA1684-LK 2SC2921		R329 R330	1-249-428-11 1-249-431-11		8. 2K 15K	5%	1/4W	
Q712 Q713	8-729-320-30 TR		2SA1215		R331	1-249-431-11		8. 2K		1/4W	
£110	5 120 020 10 TK	VIVIVI			R332	1-249-436-11		39K	5%	1/4W	
						100 11				-,	

MAIN

Ref.	No. Part No.	Descript	ion			Remarks	Ref. No.	Part No.	Desc	ription			<u>Remarks</u>
R33	33 1-249-429-11	CARBON	10K	5%	1/4W	(AV521)	R510	1-249-441-11	CARBON	100K	5%	1/4W	
R33	34 1-247-887-00	CARBON	220K	5%	1/4W		R511	1-249-417-11		1K	5%	1/4W	
R33	35 1-247-887-00	CARBON	220K	5%	1/4W		R512	1-247-897-11		560K		1/4W	
R35	51 1-249-427-11	CARBON	6. BK	5%	1/4W		R513	1-249-437-11		47K	5%	1/4W	
R35	52 1-249-427-11	CARBON	6.8K	5%	1/4W		R514	1-249-441-11		100K		1/4W	
R35			220K		1/4W		R515	1-249-409-11	CARBON	220	5%	1/4W	
R35			10K	5%	1/4W		R516	1-249-425-11	CARBON	4. 7K	5%	1/4W	
R35			10K	5%	1/4W		R551	1-249-411-11		330	5%	1/4W	
R35			10K	5%	1/4W		R552	1-249-427-11	CARBON	6.8K	5%	1/4W	
R35	57 1-249-429-11	CARBON	10K	5%	1/4W		R553	1-249-433-11	CARBON	22K	5%	1/4W	
R35	58 1-249-429-11	CARBON	10K	5%	1/4W		R554	1-249-417-11	CARRON	1 K	5%	1/4W	
R36			10K	5%	1/4W		R555	1-249-417-11		1K	5%	1/4W	
R36			2. 7K		1/4W			1-249-417-11		1K	5%	1/4W	
R36			15K	5%	1/4W		R557	1-249-417-11		1K	5%	1/4W	
R36			2. 2K		1/4W		R559	1-249-441-11		100K		1/4W	
					•					2002	G/G	2, 2	
R36			47K	5%	1/4W		R560	1-249-441-11	CARBON	100K	5%	1/4W	
R36			7. 5K	5%	1/4W		R561	1-249-417-11	CARBON	1K	5%	1/4W	
R36			7. 5K	5%	1/4W		R562	1-247-897-11	CARBON	560K	5%	1/4W	
R36			47K	5%	1/4W		R563	1-249-437-11	CARBON	47K	5%	1/4W	
R36	9 1-249-421-11	CARBON	2. 2K	5%	1/4W		R564	1-249-441-11	CARBON	100K	5%	1/4W	
R37	0 1-249-431-11	CARRON	15K	5%	1/4W		R565	1-249-409-11	CADDON	220	E Ø/	1 / 400	
R37			22K	5%	1/4W			1-249-417-11		220	5% =~	1/4W	
R37			22K	5%	1/4W		I	1-249-435-11		1K 33K	5% 5%	1/4W	
R37			10K	5%	1/4W		1	1-249-409-11		220	5%	1/4W	
R38			10K	5%	1/4W		1	1-249-421-11		2. ZK		1/4W 1/4W	
									oimbon.	2. 111	070	1/ 1/	
R38	2 1-249-429-11	CARBON	10K	5%	1/4₩		R705	1-249-434-11	CARBON	27K	5%	1/4W	
R39	1 1-247-895-00	CARBON	470K	5%	1/4W		R706	1-249-426-11	CARBON	5. 6K	5%	1/4W	
R39			10K	5%	1/4W		R707	1-249-425-11	CARBON	4.7K	5%	1/4W	
R39		CARBON	10K	5%	1/4W		R708	1-249-435-11	CARBON	33K	5%	1/4W	
R39	6 1-247-895-00	CARBON	470K	5%	1/4W		R709	1-249-411-11	CARBON	330	5%	1/4W	
R39	7 1-249-429-11	CARBON	10K	5%	1/4W			1-249-409-11	CADDON	998	Fα	4 /480	
R398			10K	5%	1/4W		i .	1-249-409-11		220 220	5% 5%	1/4W 1/4W	
R40:			220K		1/4W			1-249-435-11		33K	5%	1/4W	
R40			10K		1/4W		í	1-249-397-11		22	5%	1/4W	
R403			150K		1/4W		l	1-247-830-11		910	5%	1/4W	
								<b></b>		*20	070	1, 1,	
R404	4 1-247-887-00	CARBON	220K	5%	1/4W		R715	1-249-412-11	CARBON	390	5%	1/4W	
R405	5 1-249-425-11	CARBON	4. 7K	5%	1/4W		<b>∆</b> R716	1-249-397-11	CARBON	22	5%	1/4W	
R411	1 1-247-887-00	CARBON	220K	5%	1/4W		<b>∆R717</b>	1-249-393-11	CARBON	10	5%	1/4W	
R412	2 1-249-429-11	CARBON	10K	5%	1/4W		<b>∆</b> R718	1-249-393-11	CARBON	10	5%	1/4W	
R413	3 1-247-883-00	CARBON	150K	5%	1/4W		<b>▲R719</b>	1-249-423-11	CARBON	3. 3K	5%	1/4W	
D 41 /	4 1 947 997 00	CIDDON	0.007	F0/	1 /AW								
R414 R415			220K 1K		1/4W			1-249-417-11		1K	5%	1/4W	
R501				5% 5%	1/4W			1-249-417-11		1K	5%	1/4W	
R502			330 6. 8K	5% 5%	1/4W 1/4W			1-249-421-11		2. 2K		1/4W	
R503			0. on 22K	5%	1/4W			1-247-706-11 1-247-688-11		330 10	5% 5%	1/4W	
					A/ XII		MINIUT.	. um: 000 II	MANAGEMENT	10	J/Q	1/4W	
R504	1-249-417-11	CARBON	1K	5%	1/4W	,	<b>▲R725</b>	1-247-688-11	CARBON	10	5%	1/4W	
R505	1-249-417-11	CARBON	1K	5%	1/4W		<b>▲R726</b>	1-214-789-00	RES, METAL	PLATE		0.1	
R506			1 K	5%	1/4W		<b>▲R727</b>	1-214-789-00	RES, METAL	PLATE		0.1	
R507			1K	5%	1/4W			1-260-072-11		4. 7	5%	1/2W	
R509	1-249-441-11 (	CARBON	100K	5%	1/4W		R729	1-260-076-11	CARBON	10	5%	1/2W	

# MAIN POWER SUPP

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Descript	ion			Remarks
				5%	1/4W		R959	1-249-385-11	CARBON	2. 2	5%	1/6W	
	1-249-407-11				1/4W			1-249-385-11		2. 2		1/6W	
	1-249-431-11 1-249-437-11				1/4W			1-249-417-11		1K		1/4W	
	1-249-437-11		4. 7K		1/4W			1-249-393-11		10		1/4W	
R734 R735	1-249-425-11		4. 7K		1/4W		Noor	1 210 000 11					
K199	1-249-425-11	CARDON	4. IL	0.00	1/ 41				< RELAY >				
R736	1-249-438-11	CARBON	56K	5%	1/4W								
	1-249-428-11		8. 2K		1/4W		RY701	1-515-356-00	RELAY				
	1-249-429-11		10K		1/4W								
R740	1-249-427-11		6. 8K		1/4W				< VIBRATOR >				
	1-249-441-11		100K		1/4W								
							X301	1-577-157-11	VIBRATOR, CEI	RAMIC 8M	Hz		
R742	1-249-425-11	CARBON	4. 7K	5%	1/4W								
R743	1-249-437-11	CARBON	47K	5%	1/4W								
R744	1-249-423-11	CARBON	3. 3K	5%	1/4W		******	*******	*********	******	*****	******	****
R751	1-249-417-11	CARBON	1 K	5%	1/4W								
R752	1-249-435-11	CARBON	33K	5%	1/4W	1	*	A-4347-041-A	POWER SUPP B	DARD, CO	MPLETE		
									*******	******	*****		
R753	1-249-409-11	CARBON	220	5%	1/4W								
R754	1-249-421-11	CARBON	2. 2K	5%	1/4W				< BASE POST	>			
R755	1-249-434-11	CARBON	27K	5%	1/4W								
R756	1-249-426-11	CARBON	5.6K	5%	1/4W		BP901	1-535-139-00	BASE POST 22	MN (10NA	PITCH)	2P	
R757	1-249-425-11	CARBON	4. 7K	5%	1/4W			1-535-139-00					
							BP904	1-535-139-00	BASE POST 22	MM (10MA	( PITCH)	2P	
R758	1-249-435-11	CARBON	33K	5%	1/4W								
R759	1-249-411-11	CARBON	330	5%	1/4₩								
<b></b> AR760	1-249-409-11	CARBON	220	5%	1/4W				< CAPACITOR	>			
<b>▲R761</b>	1-249-409-11	CARBON	220	5%	1/4W						_		
R762	1-249-435-11	CARBON	33K	5%	1/4W		C901	1-161-744-00		0.0			400V
							C911	1-124-557-11		1000		20%	25V
<b>▲R763</b>	1-249-397-11	CARBON	22	5%	1/4W		C913	1-124-477-11		47ul		20%	25V
R764	1-247-830-11	CARBON	910	5%	1/4W			1-124-477-11		47ul		20%	25V
R765	1-249-412-11	CARBON	390	5%	1/4W		C916	1-164-097-11	CERAMIC	0. 0	22uF		50V
<b></b> AR766	1-249-397-11	CARBON	22	5%	1/4W								FAV
<b>▲R767</b>	1-249-393-11	CARBON	10	5%	1/4W			1-164-097-11			22uF	000	50V
								1-124-903-11		1uF		20%	50V
<b></b> AR768	1-249-393-11	CARBON	10	5%	1/4W			1-164-097-11			22uF	0.00/	50V
<b></b> ∆R769	1-249-423-11		3. 3K		1/4W		C920	1-124-464-11			2uF	20%	50V
<b>▲</b> R770	1-249-417-11		1K	5%	1/4W		C921	1-164-097-11	CERANIC	0. 0	22uF		50V
	1-249-417-11		1K	5%	1/4W			4 400 000 04	appinia	100	D.P.	1.00/	EOV
<b></b> AR772	1-249-421-11	CARBON	2. 2K	5%	1/4W		C922	1-162-282-31	CERAMIC	100	rr	10%	50V
	4 048 800 11	CARRON	000	F0/	1 /417				< JACK >				
<b>▲R773</b>	1-247-706-11		330	5%	1/4W				\ JACK >				
<b>▲R774</b>	1-247-688-11		10	5%	1/4W		CNIOO	1 1 540 062 11	I OUT ET AC	(מו זטמ)			
<b>▲R775</b>	1-247-688-11		10	5%	1/4W		CUTAO	1 1-540-062-11	I UUILEI, AC	(I OLAK)			
<b>▲</b> R776		RES, METAL PLAT			0.1								
<b>▲R777</b>	1-214-789-00	RES, METAL PLAT	Ŀ		0. 1				< CONNECTOR	>			
D770	1-260-072-11	CADRON	4. 7	5%	1/2W				· vombolok				
R778				5%	1/2W		CPQ02	1-566-690-1	1 PLUG CONNE	CTOR (2	5MM) 2P		
R779	1-260-076-11		10 150	5%	1/4W		01 302	1 000 000 1.		(40	/ WI		
R780	1-249-407-11		15K	5%	1/4W				< DIODE >				
R781 R783	1-249-431-11 1-249-438-11		56K	5%	1/4W								
K103	1-649-430-1	OUNDAN	oun	U/0	±/ '#11		D911	8-719-200-8	2 DIODE 11E	S2			
<b></b> ∆R954	1-216-421-11	METAL OXIDE	1. 2K	5%	3W 1	7	D912	8-719-200-8					
∆R955	1-247-749-1		560	5%	1/2W		D913	8-719-200-8					
25 R956	1-249-426-1		5. 6K		1/4W		D914	8-719-200-8					
R957	1-249-385-1		2. 2	5%	1/6W		D915	8-719-987-6		148N			
R958	1-249-385-1		2. 2		1/6W								
1.000	1 210 000 1.			٥.٠	-, -"		1						

REAR

**POWER SW** 

POWER SUPP

							<u> </u>			J L			
Ref. N	o. Part No.	Descri	ption			Remarks	l Ref No	o. Part No.	Descri	ntion			Domontes
	8-719-987-63		148M			11011101110				ption			Remarks
D917			6C3L				*	1-642-682-11	**********				
D918	8-719-933-41		6C3L						***************************************				
D919	8-719-985-53	B DIODE HZ4	ALL						< CAPACITOR	>			
D920	8-719-987-63	B DIODE 1N4	148N										
		. ==					C801	1-124-927-11	ELECT	4. 7uF	20%	100V	
		< TRANSISTO	R >				C802	1-162-282-31	CERANIC	100PF	10%	50V	
Q911	9_720_200_15	TDANCICTOD	2002010				C803	1-162-282-31		100PF	10%	50V	
Q922	8-729-209-15 8-729-119-78		2SD2012 2SC2785-	ucc			C804	1-124-477-11		47uF	20%	25V	
Q923	8-729-119-78		2SC2785-				C805	1-162-191-31	CERAMIC	2. 2PF	10%	50V	
Q924	8-729-119-76		2SA1175-				C806	1-124-907-11	ri rct	10uF	20%	50V	
Q925	8-729-119-76	TRANSISTOR	2SA1175-				C807	1-124-907-11		10uF	20%	50V	
							C809	1-164-097-11		0. 022uF	2070	50V	
Q926	8-729-119-78	TRANSISTOR	2SC2785-	HFE			C810	1-136-171-00		0. 33uF	5%	50V	
		< RESISTOR >	>						< CONNECTOR	>			
R911	1-249-417-11	CARBON	1K	5%	1/4W		C 1802	1-569-506-11	DI IIC CONNEC	TOR (2.5MM) 3P			
R912	1-249-437-11	CARBON	47K	5%	1/4W			1-568-826-11	•				
R913	1-249-433-11	CARBON	22K	5%	1/4W					201011 11			
R914	1-249-429-11		10K	5%	1/4W				< DIODE >				
R915	1-249-425-11	CARBON	4. 7K	5%	1/4W								
D016	1 040 400 11	CARRON	4 0 27				D801			48N			
R916 R917	1-249-429-11 1-249-417-11		10K	5% =~	1/4W		D802	8-719-987-63					
R918	1-249-417-11		1K 10K	5% 5%	1/4W		D803	8-719-987-63	DIODE 1N41	48M			
R919	1-249-426-11		5. 6K		1/4W 1/4W				/ TC >				
R920	1-249-417-11		1K	5%	1/4W				< IC >				
					-,		IC801	8-759-502-33	IC S118752				
R921	1-249-426-11	CARBON	5.6K	5%	1/4W				10 0110102				
R922	1-249-396-11	CARBON	18	5%	1/6W				< COIL >				
		/ DELAW >											
		< RELAY >				ĺ	L801	1-420-872-00	COIL, AIR COF	RE			
RY901	1-515-701-11	RELAY							< TRANSISTOR	`			
									· Inmototor	,			
		< TRANSFORME	R >				Q801	8-729-178-42	TRANSISTOR	2SC2784-F			
						1							
<b>∆</b> T902	1-449-993-21	TRANSFORMER,	POWER						< RESISTOR >				
		/ Blich >											
		< FUSE >						1-249-417-11		1K 5%	1/4W		
<b></b> ♠F901	1-532-749-11	FUSE GLASS 1	TIRE (SA)					1-249-439-11		68K 5%	1/4W		
ш. т.		toon, annous	TODE (OII)					1-249-419-11 1-249-439-11		1.5K 5%	1/4₩		
								1-217-151-00		68K 5%	1/4W 0.22		
******	******	*******	******	****	******				,		v. <i>uu</i>		
							R806	1-249-389-11	CARBON	4.7 5%	1/4W		
*	1-642-685-11						R807	1-249-409-11	CARBON	220 5%	1/4W		
		*******	*					1-249-428-11		8.2K 5%	1/4W		
		< CONNECTOR >						1-249-393-11		10 5%	1/4W		
		· connector >					K810	1-249-435-11	CARBON	33K 5%	1/4W		
* CP101	1-565-295-11	PLUG, CONNECT	OR 4P						< RELAY >				
	•	< SWITCH >					RY801	1-515-790-11 I	RELAY				
\$101	1-554-303-21	SWITCH TACTI	IF (SVSTE	n Dum	EB UN/GATUDDA	,							
		Inoll	(OIOIE		ER VII/ STRIUDI,	´	*******	*******	*******	**********	<b>****</b> ****	***	
******	*******	******	*******	****	********	*****			· · · · · · · · · · · · · · · · · · ·	*********	******	ተቶቶ	

# SP SW SP TM SURR SP VOL

Remarks Description Remarks Ref. No. Part No. Ref. No. Part No. Description < VARIABLE RESISTOR > 1-642-690-11 SP SW BOARD \*\*\*\*\*\*\* RV405 1-241-816-11 RES, VAR, CARBON 100KX4 (MASTER VOLUME) < CONNECTOR > \* \* CP702 1-564-778-11 PLUG, CONNECTOR (2.5MM) 4P MISCELLANEOUS < JACK > \*\*\*\*\*\*\*\*\*\* J701 1-563-347-11 JACK, LARGE TYPE (HEADPHONES) 1-690-588-31 WIRE, FLAT TYPE (9 CORE) 1-575-666-11 WIRE, FLAT TYPE (5 CORE) < RESISTOR > 11 1-690-114-11 WIRE, FLAT TYPE (7 CORE) 14 1-590-487-11 WIRE, FLAT TYPE (17 CORE) 1-216-431-11 METAL OXIDE 560 5% 1W F 15 AR733 1-590-769-11 WIRE, FLAT TYPE (7 CORE) \* 16 1-216-431-11 METAL OXIDE 560 5% 1W 1-590-769-11 WIRE, FLAT TYPE (7 CORE) < SWITCH > \* 57 △T901 1-450-808-11 TRANSFORMER, POWER S701 1-572-812-11 SWITCH, ROTARY SLIDE (SPEAKER) A CNP901 1-551-478-00 CORD. POWER \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \* ACCESSORIES & PACKING MATERIALS 1-642-691-11 SP TM BOARD \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* 1-693-020-11 REMOTE COMMANDER (RM-P621) (AV621) < TERMINAL > 1-693-023-11 COMMANDER (STANDARD) (RM-U521) (AV521) 3-707-584-31 COVER, BATTERY (AV521) TM701 1-537-341-11 TERMINAL BOARD (8P SP) 3-754-877-21 MANUAL, INSTRUCTION (ENGLISH) (AV521) 3-754-914-21 NANUAL, INSTRUCTION (ENGLISH) (AV621) 4-949-866-02 INDIVIDUAL CARTON (AV521) 4-949-867-02 INDIVIDUAL CARTON (AV621) 1-642-692-11 SURR SP BOARD 4-949-872-01 CUSHION \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* < TERMINAL > \* TM702 1-537-265-11 TERMINAL BOARD \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* HARDWARE LIST \* TM703 1-537-405-11 TERMINAL BOARD (2P. SP) \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* < CONNECTOR > 7-682-548-04 SCREW +BVTT 3X8 (S) CP701 1-568-739-11 PIN, CONNECTOR (PC BOARD) 4P #2 7-682-561-04 SCREW +BYTT 4X8 (S) 7-682-950-01 SCREW +PSW 3X12 #3 7-682-548-09 SCREW +B 3X8 #1 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 1-642-693-11 VOL BOARD \*\*\*\*\*\*\* < CAPACITOR > 1-164-097-11 CERAMIC 0.022uF 500 Note: The components identified by mark A or dotted < CONNECTOR > line with mark \(\Lambda\) are critical for safety.

Replace only with part number specified. \* CJ421 1-568-828-11 SOCKET, CONNECTOR 9P

tion

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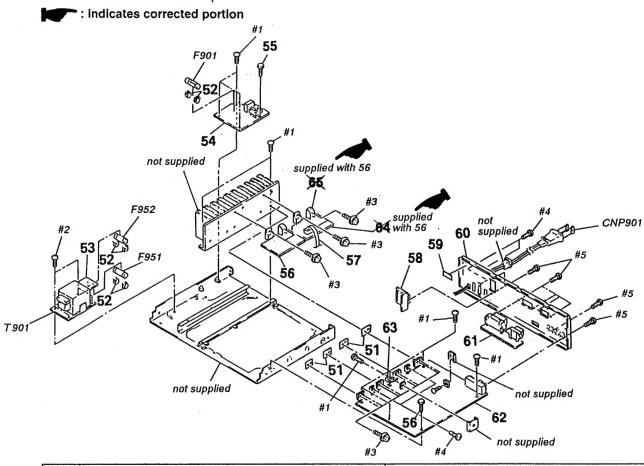
# TA-AV521/AV621

# SONY. SERVICE MANUAL

US Model

# **CORRECTION-1**

Correct your service manual as shown below.



Page		INCO	RRECT	CORRECT
	No.	Part No.	Description	Part No. Description
26	56 64	1-642-683-11 1-642-684-11	CENTER BOARD CONNECT-2 BOARD	*A-4347-040-A SURR AMP MOUNT  Supplied with 56
	65	1-642-682-11	REAR BOARD	) A 1217 O10 A CUDD AND MOUNT
27		1-642-683-11 1-642-684-11	CENTER BOARD CONNECT-2 BOARD	A-4347-040-A SURR AMP MOUNT
35		1-642-682-11	REAR BOARD	

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